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ATTORNEY DOCKET NO. BBI-013C3CN2 FIRST NAMED INVENTOR FILING DATE APPLICATION NO. BUJARD 03/30/99

09/281,674

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EXAMINER SHUKLA, R

PAPER NUMBER ART UNIT 1632

DATE MAILED:

05/23/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

Applica...(s)

09/281,674

Bujard et al Group Art Unit 1632

Office Action Summary	Examiner Ram Shukla	1632	
X Responsive to communication(s) filed on <u>Mar 6, 2000</u>	0		
This action is FINAL		ecution as to the m	erits is closed
Since this application is in condition for allowance except accordance with the practice under Ex parte Quay	₩935 C.D. 11; 453 O.G. 213.	-+b(a) or thirty days.	whichever is
A shortened statutory period for response to this action is longer, from the mailing date of this communication. Fai application to become abandoned. (35 U.S.C. § 133). E 37 CFR 1.136(a).	llure to respond within the period Extensions of time may be obtain	I for response will ca led under the provisi	ons of
Disposition of Claim		is/are pen	ding in the applicat
X Claim(s) <u>1-6, 9-14, and 17-19</u>		is/are withdraw	n from consideration
Of the above, claim(s)			re allowed.
Claim(s)		is/a	are rejected.
X Claim(s) 1-6, 9-14, and 17-19			are objected to.
☐ Claim(s)	ore Sti		election requirement.
Claims	are su	bject to room on	
received. received in Application No. (Series Code received in this national stage application	caminer. In priority under 35 U.S.C. § 119 In copies of the priority document In comment of the priority document In comment of the laternational Bureau	(a)-(d). s have been (PCT Rule 17.2(a)).	
*Certified copies not received: Acknowledgement is made of a claim for dom	nestic priority under 35 U.S.C. §	119(e).	
Attachment(s) ☐ Notice of References Cited, PTO-892 ☒ Information Disclosure Statement(s), PTO-14 ☐ Interview Summary, PTO-413 ☐ Notice of Draftsperson's Patent Drawing Revi ☐ Notice of Informal Patent Application, PTO-15	iew, PTO-948		
SEE OFFIC	E ACTION ON THE FOLLOWING	PAGES	
JEL OFFICE			Part of Paper No. 9

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DETAILED ACTION

Amendment filed 3-6-00 (paper #8) has been entered. 1.

Claims 7, 8, 15, and 16 have been canceled.

New claims 18 and 19 have been entered.

Claims 1-6, 9-14, 17-19 are under consideration in the instant application.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal application. See 37 CFR 1.130(b). disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1-6, 9-14, and 17-19 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-17 of U.S. Patent No. U.S. Patent No. 5,888,981. Although the conflicting claims are not identical, they are not patentably distinct from each other because the invention of the instant application can not be practiced without infringing on the invention of the cited patent.

In the currently presented format, claims 1 and its dependent claims (2-5) are directed to a method for regulating expression of a tet-operator linked gene in a cell of a subject, wherein the tet operator linked gene and the tetracyline controllable transactivator tTA which is operably linked to an eukaryotic transcriptional transactivator polypeptide, are introduced in the cells as separate nucleic acid molecules (that is they are not covalently linked to each other in one construct and the concentration of tetracycline or its analog are modulate for regulating the gene expression. Claims 2-5 limit the Tet repressor to Tn10 while the eukaryotic transcriptional transactivator polypeptide is limited to HSV vp16, the tTA encoding molecule is integrated in the

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genome of the cell randomly or at a predetermined location. Claim 6 limits the method of claim 1 wherein the tTA encoding nucleic acid is introduced in a cell in vitro or ex vivo and then administered to the subject. Claim 9 limits the tetracycline analogs to ahydrotetracycline, doxycycline, or cyanotetracycline.

The invention of claim 10 and its dependent claims (11-14 and 17) is similar to that of the claim 1 except that in claim 10, a cell is obtained from a subject and in that isolated cell nucleic acids comprising tet operator linked gene and encoding tTA transcriptional transactivator is introduced using two different nucleic acids (not covalently linked).

In the method of Claim 18 and its dependent claims (2-5), both the tet operator repressor linked gene and the tTA transcriptional transactivator are comprised in one nucleic acid. Claims 2-7 limit the invention of claim 18, as they limit the invention of claim 1. Again claim 6, when dependent on claim 18, recites the same method but the nucleic acid is introduced in a cell ex vivo and then administered to the subject.

Claim 19, on the other hand, recites a function which has limitations similar to those of cliam 18 except for the limitation that the cell is obtained from the subject and then the nucleic acid is introduced in the cell and the modified cell is then administered to the subject. Claims 11-acid is introduced in the cell and the modified cell is then administered to the subject. Claims 11-acid is introduced in the invention of claim 19 wherein the Tet repressor is Tn10 while the eukaryotic 14 and 17 limit the invention of claim 19 wherein the Tet repressor is Tn10 while the eukaryotic transcriptional transactivator polypeptide is limited to HSV vp16, the tTA encoding molecule is integrated in the genome of the cell randomly or at a predetermined location.

It is noted that the inventions of the cited patent and the instant application differ in only one respect, that is: the nucleic acids encoding the rTA transcriptional transactivator and the tet repressor operator are present in one construct (covalently linked together) or are present on two separate constructs. While the nucleic acids may be administered to a subjectas one one construct or as two constructs, still the method remains the same i.e. the method of regulating construct or as two constructs, still the method remains the same i.e. the method of regulating the expression of a tet operator linked gene in a cell of a subject and both the nucleic acids are exogenously administered, wherein a tetracycline contollable transactivator binds to a tet operator sequences and regulates the expression of the gene linked to the tet operator.

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It would have been obvious to one of ordinary skill in the art to provide the tet operator linked gene and the tTA transactivator encoding gene on two separate constructs for regulating the expression of an exogenous gene in a subject because, this way a cell expressing a tTA transactivator can be used for regulating the expression of different exogenous genes.

- 4. No claim is allowed.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS of the from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be date the advisory action is mailed, and any extension. In no event, however, will the statutory calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram R. Shukla whose telephone number is (703) 305-1677. The examiner can normally be reached on Monday through Thursday and every other Friday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jasemine Chambers, can be reached on (703) 308-2035. The fax phone number for this Group is (703) 308-4242.

this Group is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-0196.

Ram R. Shukla, Ph.D.

BRUCE R. CAMPELY PRIMARY EXAMINED GROUP 1800